

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/530,187
Source: PCT
Date Processed by STIC: 4-12-05

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PCT

RAW SEQUENCE LISTING

DATE: 04/12/2005

PATENT APPLICATION: US/10/530,187

TIME: 08:49:26

Input Set : A:\SEQ LISTING U.S. -VAI-14.txt
 Output Set: N:\CRF4\04122005\J530187.raw

3 <110> APPLICANT: THE, Bin Tean
 4 TAKAHASHI, Masayuki
 6 <120> TITLE OF INVENTION: Molecular Subclassification of Kidney Tumors and the
 Discovery of
 7 New Diagnostic Markers
 9 <130> FILE REFERENCE: 28927-0014
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/530,187 (PS: 6-7)
 12 <141> CURRENT FILING DATE: 2005-04-04
 14 <150> PRIOR APPLICATION NUMBER: PCT/US2003/031476
 15 <151> PRIOR FILING DATE: 2003-10-06
 17 <150> PRIOR APPLICATION NUMBER: US 60/415,775
 18 <151> PRIOR FILING DATE: 2002-10-04
 20 <160> NUMBER OF SEQ ID NOS: 296
 22 <170> SOFTWARE: PatentIn version 3.2
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 343
 26 <212> TYPE: DNA
 27 <213> ORGANISM: homo sapiens
 29 <220> FEATURE:
 30 <221> NAME/KEY: misc_feature
 31 <222> LOCATION: (12)..(12)
 32 <223> OTHER INFORMATION: n is a, c, g, or t
 34 <220> FEATURE:
 35 <221> NAME/KEY: misc_feature
 36 <222> LOCATION: (56)..(56)
 37 <223> OTHER INFORMATION: n is a, c, g, or t
 39 <220> FEATURE:
 40 <221> NAME/KEY: misc_feature
 41 <222> LOCATION: (89)..(89)
 42 <223> OTHER INFORMATION: n is a, c, g, or t
 44 <220> FEATURE:
 45 <221> NAME/KEY: misc_feature
 46 <222> LOCATION: (91)..(92)
 47 <223> OTHER INFORMATION: n is a, c, g, or t
 49 <220> FEATURE:
 50 <221> NAME/KEY: misc_feature
 51 <222> LOCATION: (196)..(197)
 52 <223> OTHER INFORMATION: n is a, c, g, or t
 54 <220> FEATURE:
 55 <221> NAME/KEY: misc_feature
 56 <222> LOCATION: (239)..(239)
 57 <223> OTHER INFORMATION: n is a, c, g, or t
 59 <220> FEATURE:
 60 <221> NAME/KEY: misc_feature

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61 <222> LOCATION: (260)..(260)
 62 <223> OTHER INFORMATION: n is a, c, g, or t
 64 <220> FEATURE:
 65 <221> NAME/KEY: misc_feature
 66 <222> LOCATION: (276)..(276)
 67 <223> OTHER INFORMATION: n is a, c, g, or t
 69 <220> FEATURE:
 70 <221> NAME/KEY: misc_feature
 71 <222> LOCATION: (281)..(281)
 72 <223> OTHER INFORMATION: n is a, c, g, or t
 74 <220> FEATURE:
 75 <221> NAME/KEY: misc_feature
 76 <222> LOCATION: (314)..(314)
 77 <223> OTHER INFORMATION: n is a, c, g, or t
 79 <220> FEATURE:
 80 <221> NAME/KEY: misc_feature
 81 <222> LOCATION: (331)..(331)
 82 <223> OTHER INFORMATION: n is a, c, g, or t
 84 <400> SEQUENCE: 1

W-->	85 tttttttttt gntgagggttg cttttattcc aagaactctg tgagctccac ccaganacca	60
	87 ttggcgcctg cttgtgtccc caggggccnt nnacacaaca gcaccagcac catgagggcg	120
	89 ctctcgaccc acacaagccc tgggccccgt cagtcaatgt gactgagtcc gccattgagg	180
	91 ccagtctggc tggccnnaag tggtccctct gagtccccaa ctccctggcc agcaaggant	240
	93 gaagctccat gccccttggn ccacgcctct agagtnntgag natatcctgc agcctcgatc	300
	95 tcaggaggca acgnatgcag ccccccgtca ntcaggaaag ggg	343

98 <210> SEQ ID NO: 2
 99 <211> LENGTH: 322
 100 <212> TYPE: DNA
 101 <213> ORGANISM: homo sapiens
 103 <220> FEATURE:
 104 <221> NAME/KEY: misc_feature
 105 <222> LOCATION: (232)..(232)
 106 <223> OTHER INFORMATION: n is a, c, g, or t
 108 <220> FEATURE:
 109 <221> NAME/KEY: misc_feature
 110 <222> LOCATION: (234)..(234)
 111 <223> OTHER INFORMATION: n is a, c, g, or t
 113 <220> FEATURE:
 114 <221> NAME/KEY: misc_feature
 115 <222> LOCATION: (236)..(236)
 116 <223> OTHER INFORMATION: n is a, c, g, or t
 118 <220> FEATURE:
 119 <221> NAME/KEY: misc_feature
 120 <222> LOCATION: (248)..(248)
 121 <223> OTHER INFORMATION: n is a, c, g, or t
 123 <220> FEATURE:
 124 <221> NAME/KEY: misc_feature
 125 <222> LOCATION: (274)..(274)
 126 <223> OTHER INFORMATION: n is a, c, g, or t

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128 <220> FEATURE:
 129 <221> NAME/KEY: misc_feature
 130 <222> LOCATION: (282)..(282)
 131 <223> OTHER INFORMATION: n is a, c, g, or t
 133 <400> SEQUENCE: 2
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 136 agccccggcc ccacggctac ttgcgcccc aggagggttg ggcaggggcc cgccggagg 120
 138 aggctgcagg tgtgtcagga ggcacctggc cggaggctac cccctccctc tggaccctca 180
 W--> 140 gcagagttga ggcgcctgca ccccagggga gccaggctgc tatctaaagg antntnaggt 240
 142 gcggtcantt ccgcactgg ccggtgtcgg ggtntggaa ancctgagac cctaagctct 300
 144 ctggctgt ctctcaaacc ct 322
 147 <210> SEQ ID NO: 3
 148 <211> LENGTH: 465
 149 <212> TYPE: DNA
 150 <213> ORGANISM: homo sapiens
 152 <220> FEATURE:
 153 <221> NAME/KEY: misc_feature
 154 <222> LOCATION: (9)..(9)
 155 <223> OTHER INFORMATION: n is a, c, g, or t
 157 <220> FEATURE:
 158 <221> NAME/KEY: misc_feature
 159 <222> LOCATION: (274)..(274)
 160 <223> OTHER INFORMATION: n is a, c, g, or t
 162 <220> FEATURE:
 163 <221> NAME/KEY: misc_feature
 164 <222> LOCATION: (304)..(304)
 165 <223> OTHER INFORMATION: n is a, c, g, or t
 167 <220> FEATURE:
 168 <221> NAME/KEY: misc_feature
 169 <222> LOCATION: (348)..(348)
 170 <223> OTHER INFORMATION: n is a, c, g, or t
 172 <220> FEATURE:
 173 <221> NAME/KEY: misc_feature
 174 <222> LOCATION: (422)..(422)
 175 <223> OTHER INFORMATION: n is a, c, g, or t
 177 <220> FEATURE:
 178 <221> NAME/KEY: misc_feature
 179 <222> LOCATION: (457)..(457)
 180 <223> OTHER INFORMATION: n is a, c, g, or t
 182 <400> SEQUENCE: 3
 W--> 183 agttccant ttactgaat ttgtattcc aaaaaatttgg tggcttagga ggagattgg 60
 185 aaactgaatt cacatcgat cctaattgaga agaaatcaat tttaactaag tgggtgaata 120
 187 ggagttgtat tatttaatta gcatataatt tgaaagagtt cattagcttc acaacaggca 180
 189 caatcaacac ttagttaaag cacttaattt ttgcaaaaact ttagaataact ggtcttgcatt 240
 191 gtcttgcacc tctatggctg gtttattaaa accnngaaaa tcttccttgg attttctaa 300
 193 agnntttctc atccatgggg agggcttcc tggggctgcc agggctgnata gggaaacttc 360
 195 cttccactgt gggggcaggg ttactggatt ctgggtttc agggccottc agccagaggg 420
 197 gnaagctggg gaaataaggg cttaggaggtc caagctttc cccgg 465
 200 <210> SEQ ID NO: 4

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201 <211> LENGTH: 411
 202 <212> TYPE: DNA
 203 <213> ORGANISM: homo sapiens
 205 <220> FEATURE:
 206 <221> NAME/KEY: misc_feature
 207 <222> LOCATION: (355)..(355)
 208 <223> OTHER INFORMATION: n is a, c, g, or t
 210 <220> FEATURE:
 211 <221> NAME/KEY: misc_feature
 212 <222> LOCATION: (395)..(395)
 213 <223> OTHER INFORMATION: n is a, c, g, or t
 215 <400> SEQUENCE: 4

216	ttaagaggaa	gaacatgtag	ctcactttat	tttcccaaaa	gatgtcttga	aattttaatc	60
218	agttcagtca	tcccttatctt	tcttcttaca	tattaatcct	atagatttagt	gactcttgta	120
220	taagacaaga	aaaactaatg	tgcttgtttgc	atatcagcac	agatcagtct	ctaagcagaa	180
222	gtgaaaatat	gggaaaatga	gttggaaagg	aaaatgttat	agaaaatagt	aaagacaaac	240
224	catgggacca	cctttctca	gtgagagata	cattgtcggt	ggcagagtgc	tggagagctg	300
W--> 226	ggcagagaagg	aacaaaatgt	ctgacagcag	gagccggagc	ccagggagga	aaccnagatg	360
228	gaaagggctc	tgctcagact	gactccatgt	gggcncctta	tgggataaag	g	411
231	<210>	SEQ ID NO:	5				
232	<211>	LENGTH:	434				
233	<212>	TYPE:	DNA				
234	<213>	ORGANISM:	homo sapiens				
236	<400>	SEQUENCE:	5				
237	tgctgccaaa	agccttaat	atgccctgg	cccaggctgt	gttcatgaaa	gcggacacag	60
239	cagtgttcc	agcttcatgg	ttcccagg	caggccctc	ccagcggagg	tgggaggc	120
241	gccctcacac	ctggcacccc	tgagtgcata	ctccctggagg	aagtgcgtga	gctgggcaca	180
243	ggctgctcgc	tggcggtgtc	tccggcacag	gcgttcagag	ggcatcttct	cgatccagct	240
245	attcgagtcc	agcaggtact	gggggtgtcc	tcgaggtcat	aggtggcccc	atctagaccc	300
247	atgatcaa	attcttccc	aggttccaag	cgaaggcgtc	aggaggctcg	aaccaggaag	360
249	ttgcgcatct	gattgcagc	ggccttgaca	tccttggta	agtgcaggac	ttgggtgatc	420
251	tttgtctcaa	agag					434
254	<210>	SEQ ID NO:	6				
255	<211>	LENGTH:	373				
256	<212>	TYPE:	DNA				
257	<213>	ORGANISM:	homo sapiens				
259	<400>	SEQUENCE:	6				
260	tttgtgttt	tgaagataaa	tgtcatttgc	ctatgataat	agcatcatag	gacaatttgc	60
262	catttttagac	ttgaccat	tttcttttt	tagcatatag	ccatcttgc	attttaggtgg	120
264	gagactactc	caatggagca	acagtttcat	tttacatgt	tggatttgc	aatttacaaa	180
266	ttttaaactc	ataagaattc	taaataattt	gaaaatggaa	acatttgc	cacagtctag	240
268	cagcataaaat	acatttataa	aatacttcat	tgttgcattt	aggtcatttgc	tttaaaacag	300
270	aatttggta	ctatggcag	gtggagggg	ccagtgagga	aggtataaaa	gagaaatctt	360
272	tatgaatttgc	gtt					373
275	<210>	SEQ ID NO:	7				
276	<211>	LENGTH:	493				
277	<212>	TYPE:	DNA				
278	<213>	ORGANISM:	homo sapiens				
280	<220>	FEATURE:					

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281 <221> NAME/KEY: misc_feature
282 <222> LOCATION: (245)..(245)
283 <223> OTHER INFORMATION: n is a, c, g, or t
285 <220> FEATURE:
286 <221> NAME/KEY: misc_feature
287 <222> LOCATION: (473)..(473)
288 <223> OTHER INFORMATION: n is a, c, g, or t
290 <400> SEQUENCE: 7
291 gggttcacac acaaacattc aggaaggcgc actgggttag acccaacttg atcccgtaaa      60
293 gtgtcctgag tgtccctctt cacatggcca cttctttgc caggttctt ggttcccgtc      120
295 ttgggataca ccagtcatca gcctcagagc tcatactgata atgtttgaag gctgacttgt      180
297 taaaaactgg aagttttcc taatagacct cagaagacaa agcccttta agtagaatga      240
W--> 299 tagcnatctg gttccataa tccctgatta aaggagtaag aagattcagg atcccttg      300
301 gaaaaggtaa ttttggata ccaggaccga gaaaatttg gccaaggccg gtaaaaccca      360
303 aaaacccagg cccaaaaagg gaaggcaatt tccccgggaa atttaatccc atccaccagg      420
305 ggcgcgttgg ggtgcagtt gggaaagttaa tggtataaac taaaagaagg ccnggtcaat      480
307 taaattctca ggg                                493
310 <210> SEQ ID NO: 8
311 <211> LENGTH: 475
312 <212> TYPE: DNA
313 <213> ORGANISM: homo sapiens
315 <400> SEQUENCE: 8
316 cttagttcttc ctcagtgaga gggaggtact gtttaccaa cagctctgat ttggtgagtg      60
318 cattttctac gccactgctc acgagctgca tcataccgact ccccaagact gtgttaatgc      120
320 tgccactgac cacagacttg gtcttctcca cactgccagt cactgccct ttggctttgt      180
322 ccatcacccc tgtgatcgta ctggccacag aatcttggc cccagtacaca gtagtcgtca      240
324 cagcatctt tgccccagtc acagcgcctt tggagttggc aacaatctga gttgatggct      300
326 gattcagaat aggcagtctc tcctcaatcc tgtctagccc cttacaggca tagttattgg      360
328 caactgcaat ttgcggctct agttctggta tgatggcag agcaactggc atggccacgg      420
330 aagtgtatggt cttcaaacgg ttctctgcac tctcacacac agacttcagg taggg      475
333 <210> SEQ ID NO: 9
334 <211> LENGTH: 267
335 <212> TYPE: DNA
336 <213> ORGANISM: homo sapiens
338 <220> FEATURE:
339 <221> NAME/KEY: misc_feature
340 <222> LOCATION: (240)..(240)
341 <223> OTHER INFORMATION: n is a, c, g, or t
343 <220> FEATURE:
344 <221> NAME/KEY: misc_feature
345 <222> LOCATION: (245)..(245)
346 <223> OTHER INFORMATION: n is a, c, g, or t
348 <400> SEQUENCE: 9
349 agagttctta tcgctgtta ttgaaacctc ccatcaaaga aaagtgtggg aggcaagaag      60
351 ggaggactt ctcatcttgc taagactcg tcttgtagg actgagccag gggatatcg      120
353 ggacacctcg gggaaagagga ccgggacagt ggggaaggt ggccagtggg gaagggttag      180
W--> 355 acagaagaat ggcaggcgtg gttgcaggg agaacaaggc cagggatggc tgaacctttn      240
357 aactngccag ggctggccag gaggctc                                267
360 <210> SEQ ID NO: 10

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 12,55,89,91,92,198,199,239,260,276,281,314,331
Seq#:2; N Pos. 282,234,276,248,274,282
Seq#:3; N Pos. 9,274,304,348,422,457
Seq#:4; N Pos. 355,395
Seq#:7; N Pos. 244,473
Seq#:9; N Pos. 240,245
Seq#:10; N Pos. 27,33,34,56,58,60,62,63,64,65,66,203,297,301,319,359,395
Seq#:11; N Pos. 27,39,234,387,428,438,450
Seq#:12; N Pos. 200,231,239,244,268,274,281,288
Seq#:13; N Pos. 4,34,84,87,226
Seq#:14; N Pos. 134
Seq#:16; N Pos. 380,403
Seq#:17; N Pos. 485,527,536,559
Seq#:20; N Pos. 376,450,511
Seq#:21; N Pos. 15,18,95,256,271,298,322,356,375
Seq#:23; N Pos. 114,123,154,166,204,207,270,310,315,346,420
Seq#:27; N Pos. 208,409
Seq#:28; N Pos. 278,367,377
Seq#:29; N Pos. 34,35,36,37,139,143,245,348,363
Seq#:30; N Pos. 211,217,249,262
Seq#:31; N Pos. 461,515,523
Seq#:32; N Pos. 157,264,302,307,318
Seq#:33; N Pos. 249,294
Seq#:38; N Pos. 393,441
Seq#:39; N Pos. 165,263,273,381
Seq#:40; N Pos. 171,313,321,354,359
Seq#:45; N Pos. 408
Seq#:49; N Pos. 5,9,97,142,253,272,287,309,392,423
Seq#:53; N Pos. 311
Seq#:57; N Pos. 15,185,225,242
Seq#:58; N Pos. 269,279,359,365
Seq#:61; N Pos. 162,180,245,284,305,319,352,371,413,422
Seq#:62; N Pos. 48,217,240,249,266,274,277
Seq#:65; N Pos. 167
Seq#:66; N Pos. 295
Seq#:67; N Pos. 208
Seq#:68; N Pos. 3,10,39,416,424
Seq#:69; N Pos. 399,412,419,435,452
Seq#:71; N Pos. 6,8,75,139,202,282
Seq#:73; N Pos. 81,85,152
Seq#:74; N Pos. 433
Seq#:75; N Pos. 232,252,259,273,299
Seq#:77; N Pos. 332
Seq#:78; N Pos. 193,230,345,396,413,433,450,458

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Seq#:79; N Pos. 3,5,160,336
Seq#:81; N Pos. 302,420,466,485,494,506
Seq#:82; N Pos. 1,2,3,4,187,205,270,317,322,360
Seq#:84; N Pos. 395
Seq#:85; N Pos. 250,423
Seq#:86; N Pos. 355
Seq#:92; N Pos. 147,309,349,365,372,380

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:180
M:341 Repeated in SeqNo=2
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:300
M:341 Repeated in SeqNo=4
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:240
M:341 Repeated in SeqNo=7
L:355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:180
M:341 Repeated in SeqNo=9
L:426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
M:341 Repeated in SeqNo=10
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:180
M:341 Repeated in SeqNo=12
L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
M:341 Repeated in SeqNo=13
L:615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:120
L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:360
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480
M:341 Repeated in SeqNo=17
L:796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:360
M:341 Repeated in SeqNo=20
L:854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:953 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:60
M:341 Repeated in SeqNo=23
L:1057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:180
M:341 Repeated in SeqNo=27
L:1097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:240
M:341 Repeated in SeqNo=28
L:1140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29
L:1187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:180
M:341 Repeated in SeqNo=30
L:1227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:420
M:341 Repeated in SeqNo=31
L:1267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:120
M:341 Repeated in SeqNo=32
L:1300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:240
L:1415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:360
M:341 Repeated in SeqNo=38
L:1450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:120
M:341 Repeated in SeqNo=39

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L:1496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:120
M:341 Repeated in SeqNo=40
L:1616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:360